

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/573, 582  
Source: IFWP  
Date Processed by STIC: 04/10/2006

# ***ENTERED***

**CRF Errors Edited by the STIC Systems Branch**

Serial Number: 10/573, 582

CRF Edit Date: 04/10/2006  
Edited by: DA

\_\_\_ **Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line**

\_\_\_ **Corrected the SEQ ID NO. Sequence numbers edited were:**

\_\_\_\_\_

\_\_\_ **Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:**

\_\_\_\_\_

~~\_\_\_~~ **Deleted: \_\_\_ invalid beginning/end-of-file text ; \_\_\_ page numbers**

\_\_\_ **Inserted mandatory headings/numeric identifiers, specifically:**

\_\_\_\_\_

\_\_\_ **Moved responses to same line as heading/numeric identifier, specifically:**

\_\_\_\_\_

\_\_\_ **Other:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

IFWP

## RAW SEQUENCE LISTING

DATE: 04/10/2006

PATENT APPLICATION: US/10/573,582

TIME: 15:25:39

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\04102006\J573582.raw

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3 <110> APPLICANT: Bayer AG, BHC
5 <120> TITLE OF INVENTION: New acylglycerol acyltransferase-like protein MGAT-X2 and
uses thereof
7 <130> FILE REFERENCE: Le A 36 895
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/573,582
C--> 9 <141> CURRENT FILING DATE: 2006-03-27
9 <160> NUMBER OF SEQ ID NOS: 5
11 <170> SOFTWARE: PatentIn version 3.1
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 1014
15 <212> TYPE: DNA
16 <213> ORGANISM: Homo sapiens
18 <400> SEQUENCE: 1
19 atggctttct tctcccgact gaatctccag gagggcctcc aaaccttctt tgttttgcaa      60
20 tggatcccag tctatatatt tttaggagct attcccattc tccttataacc ctactttctg      120
21 ttattcagta agttctggcc cttggctgtg ctctccttag cctggctcac ctatgattgg      180
22 aacaccacaca gtcaagggtg caggcgttca gcttgggtac gaaactggac cctatggaag      240
23 tatttccgaa attacttccc agtaaagctg gtgaagactc atgatctttc tcccaaacac      300
24 aactacatca tgccaatca ccccatggc attctctctt ttgggtgtctt catcaacttt      360
25 gccactgagg ccactggcat tgctcggatt ttcccatcca tcaactccctt tgtagggacc      420
26 ttagaaagga tattttggat cccaattgtg cgagaatatg tgatgtcaat ggggtgtgtgc      480
27 cctgtgagta gctcagcctt gaagtacttg ctgaccaga aaggctcagg caatgccgtg      540
28 gttattgtgg tgggtggagc tgctgaagct ctcttggtgcc gaccaggagc ctccactctc      600
29 ttccctcaagc agcgtaaagg ttttgtgaag atggcactgc aaacaggggc atacctgtc      660
30 ccttcatatt cctttggtga gaacgaagtt ttcaatcagg agaccttccc tgagggcacg      720
31 tgggttaaggt tgttccaaaa aaccttccag gacacattca aaaaaatcct gggactaaat      780
32 ttctgtacct tccatggccg gggcttcaat cgcggatcct ggggcttccg gcctttcaat      840
33 cggcccatta ccactgttgt tggggaaccc cttccaattc ccaggattaa gagggccaaac      900
34 cagaagacag tagacaagta tcacgcactc tacatcagtg ccctgcgcaa gctctttgac      960
35 caacacaaag ttgaatatgg cctccctgag acccaagagc tgacaattac ataa      1014
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38 <211> LENGTH: 337
39 <212> TYPE: PRT
40 <213> ORGANISM: Homo sapiens
42 <400> SEQUENCE: 2
43 Met Ala Phe Phe Ser Arg Leu Asn Leu Gln Glu Gly Leu Gln Thr Phe
44 1          5          10          15
45 Phe Val Leu Gln Trp Ile Pro Val Tyr Ile Phe Leu Gly Ala Ile Pro
46          20          25          30
47 Ile Leu Leu Ile Pro Tyr Phe Leu Leu Phe Ser Lys Phe Trp Pro Leu
48          35          40          45
49 Ala Val Leu Ser Leu Ala Trp Leu Thr Tyr Asp Trp Asn Thr His Ser
50          50          55          60
51 Gln Gly Gly Arg Arg Ser Ala Trp Val Arg Asn Trp Thr Leu Trp Lys

```

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52 65          70          75          80
53 Tyr Phe Arg Asn Tyr Phe Pro Val Lys Leu Val Lys Thr His Asp Leu
54          85          90          95
55 Ser Pro Lys His Asn Tyr Ile Ile Ala Asn His Pro His Gly Ile Leu
56          100         105         110
57 Ser Phe Gly Val Phe Ile Asn Phe Ala Thr Glu Ala Thr Gly Ile Ala
58          115         120         125
59 Arg Ile Phe Pro Ser Ile Thr Pro Phe Val Gly Thr Leu Glu Arg Ile
60          130         135         140
61 Phe Trp Ile Pro Ile Val Arg Glu Tyr Val Met Ser Met Gly Val Cys
62 145          150         155         160
63 Pro Val Ser Ser Ser Ala Leu Lys Tyr Leu Leu Thr Gln Lys Gly Ser
64          165         170         175
65 Gly Asn Ala Val Val Ile Val Val Gly Gly Ala Ala Glu Ala Leu Leu
66          180         185         190
67 Cys Arg Pro Gly Ala Ser Thr Leu Phe Leu Lys Gln Arg Lys Gly Phe
68          195         200         205
69 Val Lys Met Ala Leu Gln Thr Gly Ala Tyr Leu Val Pro Ser Tyr Ser
70          210         215         220
71 Phe Gly Glu Asn Glu Val Phe Asn Gln Glu Thr Phe Pro Glu Gly Thr
72 225          230         235         240
73 Trp Leu Arg Leu Phe Gln Lys Thr Phe Gln Asp Thr Phe Lys Lys Ile
74          245         250         255
75 Leu Gly Leu Asn Phe Cys Thr Phe His Gly Arg Gly Phe Thr Arg Gly
76          260         265         270
77 Ser Trp Gly Phe Leu Pro Phe Asn Arg Pro Ile Thr Thr Val Val Gly
78          275         280         285
79 Glu Pro Leu Pro Ile Pro Arg Ile Lys Arg Pro Asn Gln Lys Thr Val
80          290         295         300
81 Asp Lys Tyr His Ala Leu Tyr Ile Ser Ala Leu Arg Lys Leu Phe Asp
82 305          310         315         320
83 Gln His Lys Val Glu Tyr Gly Leu Pro Glu Thr Gln Glu Leu Thr Ile
84          325         330         335
85 Thr

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88 &lt;210&gt; SEQ ID NO: 3

89 &lt;211&gt; LENGTH: 22

90 &lt;212&gt; TYPE: DNA

91 &lt;213&gt; ORGANISM: artificial sequence

93 &lt;220&gt; FEATURE:

94 &lt;223&gt; OTHER INFORMATION: forward primer

96 &lt;400&gt; SEQUENCE: 3

97 cttcctcaag cagcgtaaag gt

99 &lt;210&gt; SEQ ID NO: 4

100 &lt;211&gt; LENGTH: 25

101 &lt;212&gt; TYPE: DNA

102 &lt;213&gt; ORGANISM: artificial sequence

104 &lt;220&gt; FEATURE:

105 &lt;223&gt; OTHER INFORMATION: reverse primer

107 &lt;400&gt; SEQUENCE: 4

22

## RAW SEQUENCE LISTING

DATE: 04/10/2006

PATENT APPLICATION: US/10/573,582

TIME: 15:25:39

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\04102006\J573582.raw

108 aggaatatga agggacaagg tatgc 25  
110 <210> SEQ ID NO: 5  
111 <211> LENGTH: 24  
112 <212> TYPE: DNA  
113 <213> ORGANISM: artificial sequence  
115 <220> FEATURE:  
116 <223> OTHER INFORMATION: probe  
118 <400> SEQUENCE: 5  
119 ttgtgaagat ggcactgcaa acag 24

VERIFICATION SUMMARY

DATE: 04/10/2006

PATENT APPLICATION: US/10/573,582

TIME: 15:25:40

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\04102006\J573582.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date

**Raw Sequence Listing before editing  
(for reference only)**



IFWP

## RAW SEQUENCE LISTING

DATE: 04/06/2006

PATENT APPLICATION: US/10/573,582

TIME: 10:44:23

Input Set : A:\984396\_1.TXT

Output Set: N:\CRF4\04062006\J573582.raw

3 <110> APPLICANT: Bayer AG, BHC  
 5 <120> TITLE OF INVENTION: New acylglycerol acyltransferase-like protein MGAT-X2 and  
 uses thereof  
 7 <130> FILE REFERENCE: Le A 36 895  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/573,582  
 C--> 9 <141> CURRENT FILING DATE: 2006-03-27  
 9 <160> NUMBER OF SEQ ID NOS: 5  
 11 <170> SOFTWARE: PatentIn version 3.1

Does Not Comply  
 Corrected Diskette Needed

CP8-1

## ERRORED SEQUENCES

110 <210> SEQ ID NO: 5  
 111 <211> LENGTH: 24  
 112 <212> TYPE: DNA  
 113 <213> ORGANISM: artificial sequence  
 115 <220> FEATURE:  
 116 <223> OTHER INFORMATION: probe  
 118 <400> SEQUENCE: 5  
 119 ttgtgaagat ggcactgcaa acag  
 W--> 126 Le A 36 895-Foreign countries  
 W--> 129 - 3 -  
 E--> 133 Le a 36 899  
 E--> 136 - 1 -

24

deleted



**VERIFICATION SUMMARY**

DATE: 04/06/2006

PATENT APPLICATION: US/10/573,582

TIME: 10:44:24

Input Set : A:\984396\_1.TXT

Output Set: N:\CRF4\04062006\J573582.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No  
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:126 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:5  
L:129 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5  
L:133 M:254 E: No. of Bases conflict, LENGTH:Input:899 Counted:27 SEQ:5  
L:133 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2  
L:133 M:112 C: (48) String data converted to lower case,  
M:254 Repeated in SeqNo=5  
L:136 M:252 E: No. of Seq. differs, <211> LENGTH:Input:24 Found:27 SEQ:5